

**GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS  
(RAILWAY BOARD)**

**No. 2021/Track-III/TK/12**

**New Delhi, Dtd. 16.06.2024**

**Addressed to:  
As per list attached.**

**Sub: Correction Slip No. 6 to Indian Railway Track Machine Manual (IRTMM-2019).**

The Ministry of Railways (Railway Board) have decided to make correction/addition/deletion as indicated in the enclosed Correction Slip No. 6 to relevant para/annexures of Indian Railway Track Machine Manual-2019.

This has the approval of Additional Member, Civil Engineering (AM/CE).

**Encl.: as above**

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16/6/2025  
**(Vijay Singh)  
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## List

**The General Managers (Engg.)- CR, ER, ECR, ECoR, NR, NCR, NER, NFR, NWR, SR, SCR, SECR, SER, SWR, WCR, WR and Metro Railway/Kolkata.**

**The General Manager (Const.), N.F. Railway, Guwahati.**

**The CAO/Const. All Indian Railways.**

**PFA All Indian Railways.**

**The General Managers (Engg.) – ICF/Chennai, RCF/Kapurthala, DLW/Varanasi, CLW/Chittranjan, W&AP/Yelahanka, Bangalore & DMW/Patiala, MCF/Rai Bareli, CORE/PRYJ**

**The Director General (Track), RDSO/Alambagh, Lucknow.**

**Chief Commissioner of Railways Safety, Lucknow.**

**Managing Director, IRCON, New Delhi.**

**Managing Director, RITES, New Delhi.**

**Managing Director, DMRC, Metro Bhawan, Barakhamba Lane, New Delhi.**

**Managing Director, CONCOR, New Delhi**

**Managing Director, RVNL, August Kranti Bhawan, Bhikaji Cama Place, New Delhi.**

**Managing Director, DFCCIL, Pragati Maidan, Metro Station, New Delhi.**

**Managing Director, PIPAVAV Railway Corp. Ltd., 1<sup>st</sup> Floor Jeevan Tara Building, Gate No. 4, Parliament Street, New Delhi.**

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**The Chief Project Officer, DMRC, Pragati Vihar, New Delhi.**

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**Director General, IRIEEN, Nasik.**

**Director General, IRISET, Secunderabad.**

**Director General, IRIMEE, Jamalpur.**

**Director General, IRITM, Vill. Kanausi, Hardoi, Manik Nagar, Lucknow.**

**Director General, Railway Staff College, Vadodara.**

**Genl. Secretaries, AIRF, NFIR, IRPOF, FROA, AIRPFA, DAI (Railways) Rail Bhawan, New Delhi.**

### **Copy to:**

PPS to, Chairman & CEO, Member (Fin), Member (Infra), Member (T&RS), Member (O&BD) and Secretary.

PPS/PS to AM(CE), AM (Works), AM (PL), AM (F), AM (T), AM(Staff).  
AM(L&A), PED (Infra), PED(Bridge), PED(Vig)

EDTK (M&MC), EDCE (G), EDCE (P), EDCE (B&S) ED (W), ED(Plg), ED(WP), ED(INF), ED(L&A), ED(PSU), EDVE,

Annexure-IAddendum and Corrigendum Slip to Indian Railways Track Machine Manual, 2019

1. Para 606 (1) shall be replaced by new para 606 (1) as under :

(1) Track machines are deployed for variety of track works and their proper utilization has to be ensured by making available minimum duration of blocks for smooth, safe and effective working. Minimum duration of block is fixed based on setting up/winding up time, ineffective time and progress per effective hour. Minimum block duration etc. for different types of machines is given in table below:

Machine Type	Minimum Block in Hour (min)	Ineffective time in hour (minute)	Output / effective Hour
DUO	2.50 (150 min)	0.50 (30 min)	800 m
CSM	2.50 (150 min)	0.50 (30 min)	1200 m
TEX- DYNAMIIC	2.50 (150 min)	0.50 (30 min)	1600 m
UNIMAT	2.50* (150 min)	0.50 (30 min)	1 turnout
MPT	2.50* (150 min)	0.50 (30 min)	1000 PRC/ 1 turnout
DTS	2.50* (150 min)	0.50 (30 min)	2500 m
PCCM	3.00 (180 min)	1.25(75 min)	1 turnout per 1.75 Hr.
BCM(Plain)	3.00 (180 min)	1.00 (60 min)	200 m
BCM (P&C)	4.50 (270 min)	3.00 (180 min) #	One turnout track
HOBCM	4.00 (240 min)	1.33 (80 min)	350 m
SBCM	2.50 (150 min)	0.50 (30 min)	400 m
BRM	2.50 (150 min)	0.33 (20 min)	1500 m
TLE	3.00 (180 min)	0.75 (45 min)	200 m
TRT	4.00 (240 min)	1.25 (75 min)	400 m
RGM (72 stone)	4.00 (240 min) \$\$	0.33 (20 min)	12-15** km
RGM(96 stone)	4.00 (240 min) \$\$	0.33 (20 min)	15-18** km
SRGM	4.00 (240 min) \$\$	0.50 (30 min)	2 Turnout/3 km
RIV	2.50 (150 min)	0.50 (30 min)	40-50 km
RMM	4.00 (240 min) \$\$	0.75 (45 min)	0.7-1.5 km

- \*Time for turnout is for main line & turnout side and connection and disconnection time required for S&T.
- \*\*Depending on the length on curves in the section.
- # For deep screening of P&C, ineffective time includes movement, preparatory works and S&T works.
- \$\$ If one block of 4 hrs block is not possible then two blocks of 2.5 hrs / four blocks of 1.5 hrs to be provided.
- Output may vary depending upon the age of the machine and track features.
- For output less than 90% of the normal output, the reason should be analysed and corrective action taken, if any
- MPT is used for spot attention of both plain track and Points and Crossing, hence requirement will vary depending on work to be performed.
- Ineffective time may increase while machine will work in group.

2. In Annexure 8.4, III. Miscellaneous shall be read as V. Miscellaneous.

3. SN 2, Working Tools&SN 3,9,14 of Para (B)V. Miscellaneous of annexure 8.4 shall be modified as under:

SN	Description of items	For POH capacity of 50TMUs per annum	For POH capacity of 24TMUs per annum	IOH shed/ZMD	Satellite Depot
2	<u>POH &amp; Repair shed:</u> Each shed to have two EOT cranes of 10 Ton capacity each with EPU (epoxy polyurethane) flooring, inspection pits and grilles base. Galvanised Aluminium / Aluminium sheet with thermal insulation layer and natural drift exhaust system which will have 10-15% translucent sheets in the roof shall be provided. Pneumatic circuits with tapping arrangements at required locations shall be provided.	3 Sheds of 100mX20m with 2 lines in each shed.	2 Sheds of 100mX20m with 2 lines in each shed.	1 Sheds of 100mX20m with 2 lines	1 shed of 100m x 20m with 2 lines

#### V. Miscellaneous

(3)	CC TV with camera web based covering complete shed & store	1 Set	1 Set	1 Set	1 Set
(9)	Light weight Collapsible Ladder with working platform (up to 10 m Max. height)	1 Set	1 Set	1 Set	1 Set
(14)	Firefighting system	1 Set	1 Set	1 Set	1 Set

Annexure-IIExisting and Proposed Stipulations in Juxtaposition

SN.	Para	Existing provisions of IRPWM	Proposed provisions																																																																																																															
1.	606 (1)	<p>(1) Track machines are deployed for variety of track works and their proper utilization has to be ensured by making available minimum duration of blocks for smooth, safe and effective working. Minimum duration of block is fixed based on setting up/winding up time, ineffective time and progress per effective hour. Minimum block duration etc. for different types of machines is given in table below:</p> <table border="1" data-bbox="363 674 1235 1326"> <thead> <tr> <th data-bbox="363 674 543 752">M/c Type</th><th data-bbox="543 674 768 752">Minimum Block (hr.) (min)</th><th data-bbox="768 674 994 752">Ineffective time (hr.) (min)</th><th data-bbox="994 674 1235 752">Output / eff. Hr.</th></tr> </thead> <tbody> <tr> <td data-bbox="363 752 543 800">DUO</td><td data-bbox="543 752 768 800">2.50 (150 min)</td><td data-bbox="768 752 994 800">0.50 (30 min)</td><td data-bbox="994 752 1235 800">800 m</td></tr> <tr> <td data-bbox="363 800 543 847">CSM</td><td data-bbox="543 800 768 847">2.50 (150 min)</td><td data-bbox="768 800 994 847">0.50 (30 min)</td><td data-bbox="994 800 1235 847">1200 m</td></tr> <tr> <td data-bbox="363 847 543 894">TEX- DYNAMIIC</td><td data-bbox="543 847 768 894">2.50 (150 min)</td><td data-bbox="768 847 994 894">0.50 (30 min)</td><td data-bbox="994 847 1235 894">1600 m</td></tr> <tr> <td data-bbox="363 894 543 941">UNIMAT</td><td data-bbox="543 894 768 941">2.50* (150 min)</td><td data-bbox="768 894 994 941">0.50 (30 min)</td><td data-bbox="994 894 1235 941">1 turnout</td></tr> <tr> <td data-bbox="363 941 543 989">MPT</td><td data-bbox="543 941 768 989">2.50* (150 min)</td><td data-bbox="768 941 994 989">0.50 (30 min)</td><td data-bbox="994 941 1235 989">1000 PRC/ 1 turnout</td></tr> <tr> <td data-bbox="363 989 543 1036">DTS</td><td data-bbox="543 989 768 1036">2.50* (150 min)</td><td data-bbox="768 989 994 1036">0.50 (30 min)</td><td data-bbox="994 989 1235 1036">2500 m</td></tr> <tr> <td data-bbox="363 1036 543 1083">PCCM</td><td data-bbox="543 1036 768 1083">3.00 (180 min)</td><td data-bbox="768 1036 994 1083">1.25(75 min)</td><td data-bbox="994 1036 1235 1083">1 turnout per 1.75 Hr.</td></tr> <tr> <td data-bbox="363 1083 543 1130">BCM(Plain)</td><td data-bbox="543 1083 768 1130">3.00 (180 min)</td><td data-bbox="768 1083 994 1130">1.00 (60 min)</td><td data-bbox="994 1083 1235 1130">200 m</td></tr> <tr> <td data-bbox="363 1130 543 1178">BCM (P&amp;C)</td><td data-bbox="543 1130 768 1178">4.50 (270 min)</td><td data-bbox="768 1130 994 1178">3.00 (180 min) #</td><td data-bbox="994 1130 1235 1178">One turnout =750 m</td></tr> <tr> <td data-bbox="363 1178 543 1225">HOBCM</td><td data-bbox="543 1178 768 1225">4.00 (240 min)</td><td data-bbox="768 1178 994 1225">1.33 (80 min)</td><td data-bbox="994 1178 1235 1225">350 m</td></tr> <tr> <td data-bbox="363 1225 543 1272">SBCM</td><td data-bbox="543 1225 768 1272">2.30 (150 min)</td><td data-bbox="768 1225 994 1272">0.50 (30 min)</td><td data-bbox="994 1225 1235 1272">400 m</td></tr> <tr> <td data-bbox="363 1272 543 1319">TLE</td><td data-bbox="543 1272 768 1319">3.00 (180 min)</td><td data-bbox="768 1272 994 1319">0.75 (45 min)</td><td data-bbox="994 1272 1235 1319">200 m</td></tr> <tr> <td data-bbox="363 1319 543 1367">TRT</td><td data-bbox="543 1319 768 1367">4.00 (240 min)</td><td data-bbox="768 1319 994 1367">1.25 (75 min)</td><td data-bbox="994 1319 1235 1367">400 m</td></tr> </tbody> </table> <p>(2) Track machines are deployed for variety of track works and their proper utilization has to be ensured by making available minimum duration of blocks for smooth, safe and effective working. 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	4	<table border="1"> <tr> <td>RGM (72 stone)</td><td>4.00 (240 min)<sup>**</sup></td><td>0.75 (45 min)</td><td>12-15** km</td></tr> <tr> <td>RGM(96 stone)</td><td>4.00 (240 min)<sup>**</sup></td><td>0.75 (45 min)</td><td>15-18** km</td></tr> <tr> <td>SRGM</td><td>4.00 (240 min)<sup>**</sup></td><td>0.75 (45 min)</td><td>2 Turnout/3 km</td></tr> <tr> <td>RIV</td><td>2.50 (150 min)</td><td>0.50 (30 min)</td><td>40-50 km</td></tr> <tr> <td>RMM</td><td>4.00 (240 min)<sup>**</sup>  <sup>**</sup></td><td>0.75 (45 min)</td><td>0.7-1.5 km</td></tr> </table> <ul style="list-style-type: none"> <li>• *Time for turnout is for main line &amp; turnout side and connection and disconnection time required for S&amp;T</li> <li>• **Depending on the length on curves in the section</li> <li>• # For deep screening of P&amp;C, ineffective time includes movement, preparatory works and S&amp;T works</li> <li>• \$\$ If one block of 4 hrs block is not possible then two blocks of 2.5 hrs / four blocks of 1.5 hrs to be provided.</li> <li>• Output may vary depending upon the age of the machine and track features</li> <li>• For output less than 90% of the normal output, the reason should be analysed and corrective action taken, if any</li> <li>• MPT is used for spot attention of both plain track and Points and Crossing, hence requirement will vary depending on work to be performed.</li> </ul>	RGM (72 stone)	4.00 (240 min) <sup>**</sup>	0.75 (45 min)	12-15** km	RGM(96 stone)	4.00 (240 min) <sup>**</sup>	0.75 (45 min)	15-18** km	SRGM	4.00 (240 min) <sup>**</sup>	0.75 (45 min)	2 Turnout/3 km	RIV	2.50 (150 min)	0.50 (30 min)	40-50 km	RMM	4.00 (240 min) <sup>**</sup>  <sup>**</sup>	0.75 (45 min)	0.7-1.5 km	<table border="1"> <tr> <td>TRT</td><td>4.00 (240 min)</td><td>1.25 (75 min)</td><td>400 m</td></tr> <tr> <td>RGM (72 stone)</td><td>4.00 (240 min)<sup>**</sup></td><td>0.33 (20 min)</td><td>12-15** km</td></tr> <tr> <td>RGM(96 stone)</td><td>4.00 (240 min)<sup>**</sup></td><td>0.33 (20 min)</td><td>15-18** km</td></tr> <tr> <td>SRGM</td><td>4.00 (240 min)<sup>**</sup></td><td>0.50 (30 min)</td><td>2 Turnout/3 km</td></tr> <tr> <td>RIV</td><td>2.50 (150 min)</td><td>0.50 (30 min)</td><td>40-50 km</td></tr> <tr> <td>RMM</td><td>4.00 (240 min)<sup>**</sup>  <sup>**</sup></td><td>0.75 (45 min)</td><td>0.7-1.5 km</td></tr> </table> <ul style="list-style-type: none"> <li>• *Time for turnout is for main line &amp; turnout side and connection and disconnection time required for S&amp;T.</li> <li>• **Depending on the length on curves in the section.</li> <li>• # For deep screening of P&amp;C, ineffective time includes movement, preparatory works and S&amp;T works.</li> <li>• \$\$ If one block of 4 hrs block is not possible then two blocks of 2.5 hrs / four blocks of 1.5 hrs to be provided.</li> <li>• Output may vary depending upon the age of the machine and track features.</li> <li>• For output less than 90% of the normal output, the reason should be analysed and corrective action taken, if any</li> <li>• MPT is used for spot attention of both plain track and Points and Crossing, hence requirement will vary depending on work to be performed.</li> <li>• Ineffective time may increase while machine will work in group.</li> </ul>	TRT	4.00 (240 min)	1.25 (75 min)	400 m	RGM (72 stone)	4.00 (240 min) <sup>**</sup>	0.33 (20 min)	12-15** km	RGM(96 stone)	4.00 (240 min) <sup>**</sup>	0.33 (20 min)	15-18** km	SRGM	4.00 (240 min) <sup>**</sup>	0.50 (30 min)	2 Turnout/3 km	RIV	2.50 (150 min)	0.50 (30 min)	40-50 km	RMM	4.00 (240 min) <sup>**</sup>  <sup>**</sup>	0.75 (45 min)	0.7-1.5 km
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2.	Annx 8.4	SN	Description of items	For POH capacity of 50TMUs per annum	For POH capacity of 24TMUs per annum	IOH shed/ZMD	Satellite Depot	SN	Description of items	For POH capacity of 50TMUs per annum	For POH capacity of 24TMUs per annum	IOH shed/ZMD	Satellite Depot																																		

M.

5	2	<b>POH &amp; Repair shed:</b> Each shed to have two EOT cranes of 10 Ton capacity each with EPU (epoxy polyurethane) flooring, inspection pits and grilled base. Galvanised Aluminium /Aluminium sheet with thermal insulation layer and natural drift exhaust system which will have 10-15% translucent sheets in the roof shall be provided. Pneumatic circuits with tapping arrangements at required locations shall be provided.	3 Sheds of 100mX20m with 2 lines in each shed.	2 Sheds of 100mX20m with 2 lines in each shed.	1 Sheds of 100mX20m with 2 lines	1 shed of 50m length x20m width with 2 lines	2	<b>POH &amp; Repair shed:</b> Each shed to have two EOT cranes of 10 Ton capacity each with EPU (epoxy polyurethane) flooring, inspection pits and grilled base. Galvanised Aluminium /Aluminium sheet with thermal insulation layer and natural drift exhaust system which will have 10-15% translucent sheets in the roof shall be provided. Pneumatic circuits with tapping arrangements at required locations shall be provided.	3 Sheds of 100mX20m with 2 lines in each shed.	2 Sheds of 100mX20m with 2 lines in each shed.	1 Sheds of 100mX20m with 2 lines	1 shed of 100m x 20m with 2 lines	
		<b>III. Miscellaneous</b>							<b>V. Miscellaneous</b>				
		(3) CC TV with camera web based covering complete shed & store	1 Set	1 Set	1 Set	-		(3) CC TV with camera web based covering complete shed & store	1 Set	1 Set	1 Set	1 Set	

	(9)	Light weight Collapsible Ladder with working platform (up to 10 m Max. height)	1 Set	1 Set	1 Set			(9)	Light weight Collapsible Ladder with working platform (up to 10 m Max. height)	1 Set	1 Set	1 Set	1 Set
	(14)	Firefighting system	1 Set	1 Set	1 Set	-		(14)	Firefighting system	1 Set	1 Set	1 Set	1 Set

